**Snack Tectonics**

**icing** – Asthenosphere which is a viscous (thick) liquid that the plates ride on top of  
**fruit roll up** – tectonic plates that are thin and dense  
**graham crackers** – continental crust which is thick, but less dense (has less mass)  
**glass of water**

1. In your basket you should have wax paper, a plastic spoon, fruit roll-up and a graham cracker

2. I will come around and put a small amount of icing on your wax paper.

3. Spread the icing around into a layer about 1 cm thick

**Divergent Plate Boundary**:   
1. Place the two squares of fruit roll up (oceanic plates) onto the frosting right next to each other.  
2. Press down slowly on them. (They are dense and will sink slowly into the asthenosphere.)  
3. Slowly pull them apart to show how a divergent boundary occurs.

**I noticed..........(Use words like magma, rift valley, plates, etc.)**

**Continental-Oceanic Convergent Boundary:**  
1. **Remove one of the fruit roll-ups** from the frosting. (you can all share it and eat it)  
2. Place one of the graham cracker halves **lightly** onto the frosting asthenosphere next to the other fruit roll-up.  
3. **Gently push the continent** (graham cracker) **towards the oceanic plate** (fruit roll-up) until the two overlap and the graham cracker is on top.

**I noticed..........(Use words like plates, asthenosphere, oceanic, continental, etc.)**

**Convergent Plate Boundary**:  
1. Remove the cracker and fruit roll-up from the asthenosphere (icing). (you can share and eat it)  
2. You should grab **two** graham cracker **quarters**.   
3. Place **one edge of both crackers** into the glass of water for just a few seconds (4 seconds)  
4. Place the crackers onto the frosting (asthenosphere) with wet edges **toward each other**.  
5. Slowly push the graham crackers towards each other.

**Transform Boundary**:  
1. Pick the two crackers up off the frosting (asthenosphere) and turn them around so the two dry edges are next to each other.  
2. Slide one cracker past the other to simulate a transform plate boundary like the San Andreas fault.

**I noticed..........(Use words like slide, earthquake, valleys etc.)**

**I noticed..........(Use words like mountains, move, rock, etc.)**